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## What is claimed is:

- 1. The compound 2-(2-amino-1,6-dihydro-6-oxo-purin-9-yl)methoxy-3-hydroxy-1-propanyl-L-valinate or a pharmaceutically acceptable salt thereof, in the form of its (R)-or (S)-diastereomers, or in the form of mixtures of the two diastereomers.
- 2. The compound according to Claim 1 comprising said mixture containing equal amounts of its (R)- and (S)-diastereomers.
- 3. The compound according to Claim 1 wherein the pharmaceutically acceptable salt is the hydrochloride.
  - 4. A compound according to Claim 1 in crystalline form.
- 5. The compound of Claim 1 which is
  (R)-2-(2-amino-1,6-dihydro-6-oxo-purin-9-yl)methoxy-3-hydroxy-1-propanyl-Lvalinate and its pharmaceutically acceptable salts.
  - 6. The compound of Claim 1 which is
    (S)-2-(2-amino-1,6-dihydro-6-oxo-purin-9-yl)methoxy-3-hydroxy-1-propanyl-Lvalinate and its pharmaceutically acceptable salts.
  - 7. A compound according to Claim 5 wherein said salt is the hydrochloride.
  - 8. A compound according to Claim 6 wherein said salt is the hydrochloride.
  - 9. A pharmaceutical composition comprising a compound according to Claim 1.
    - 10. A pharmaceutical composition according to Claim 9 which includes a pharmaceutically acceptable excipient or carrier.
    - 11. The composition according to Claim 10 for intravenous administration.
      - 12. The composition according to Claim 10 for oral administration.
      - 13. The composition according to Claim 10 for topical administration.
      - 14. The composition according to Claim 10 in the form of an intravitreal implant.

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- 15. A method of treating an animal afflicted with, or at risk for, a viral or related disease which method comprises administering a therapeutically acceptable amount of a compound of Claim 1 to said animal.
- 16. The method of Claim 15 wherein the compound is administered orally.
- 17. The method of Claim 15 wherein the compound is administered topically.
- 18. The method of Claim 15 wherein the compound is administered as an intravitreal implant.
- 19. The method of Claim 15 wherein the compound is administered in the form of an injection.
  - 20. A process for preparing the compound 2-(2-amino-1,6-dihydro-6-oxo-purin-9-yl)methoxy-3-hydroxy-1-propanyl-L-valinate or a pharmaceutically acceptable salt or diastereomers thereof which process comprises:
  - (a) removal of an amino- and/or hydroxy-protecting group from a compound with the formula

wherein:

P' is a

hydroxy-protecting group or hydrogen, P<sup>2</sup> is an amino-protecting group, and P<sup>3</sup> is hydrogen or P<sup>2</sup>;

to afford the compound 2-(2-amino-1,6-dihydro-6-oxo-purin-9-yl)methoxy-3-hydroxy-1-propanyl- L-valinate or a pharmaceutically acceptable salt thereof;

- (b) conversion of the compound 2-(2-amino-1,6-dihydro-6-oxo-purin-9-yl)methoxy-3-hydroxy-1-propanyl-L-valinate into a pharmaceutically acceptable salt thereof;
  - (c) esterification of 2-(2-amino-1,6-dihydro-6-oxo-purin-9-

y1) methoxy-1, 3-propanediol (ganciclovir) or a salt thereof, with an activated derivative of L-valine;

(d) condensation of an optionally substituted guanine of the formula

OH N N N N N

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(IV)

optionally in persilylated form,

p is hydrogen or an amino-protecting group, with an 2-substituted glycerol of the formula

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wherein:

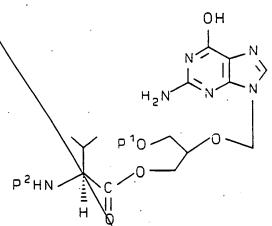
y' and Y' independently are halo, lower acyloxy, lower alkyloxy, or aryl(lower) alkyloxy groups, and Z is a leaving group selected from lower acyloxy, methoxy, isopropyloxy, benzyloxy, halo, mesyloxy or tosyloxy; optionally in the presence of a Lewis acid catalyst, to provide the compound 2-(2-amino-1,6-dihydro-6-oxo-purin-9-yl)methoxy-3-hydroxy-1-propanyl-L-valinate; or

- (e) partial hydrolysis of the bis ester 2-(2-amino-1,6-dihydro-6-oxo-purin-9-yl)methoxy-1,3-propanediyl bis (L-valinate) or a salt thereof to afford the monoester 2-(2-amino-1,6-dihydro-6-oxo-purin-9-yl)methoxy-3-hydroxy-1-propanyl-L-valinate or a pharmaceutically acceptable salt thereof; or
- (f) diastereomeric separation of 2-(2-amino-1,6-dihydro-6-oxo-purin-9-yl)methoxy-3-hydroxy-1-propanyl-L-valinate into its (R) and (S) diastereomers.
- 21. The process of Claim 20, wherein the removal of amino- and hydroxy-protecting groups is carried out under acidic conditions.

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## 15 wherein

 $P_1$  is hydrogen or a hydroxy-protecting group and  $P_2$  is an amino-protecting group.